

6.1.7 U.S. Electric Power Sector Cumulative Power Plant Additions Needed to Meet Future Electricity Demand (1)

<u>Electric Generator</u>	<u>Typical New Plant Capacity (MW)</u>	<u>Number of New Power Plants to Meet Demand</u>				
		<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>
Coal Steam	600	13	29	62	110	167
Combined Cycle	400	34	40	50	73	84
Combustion Turbine/Diesel	160	45	53	66	139	271
Nuclear Power (2)	1,000	-	-	8	13	17
Pumped Storage	143 (3)	-	-	-	-	-
Fuel Cells	10	-	-	-	-	-
Conventional Hydropower	20 (3)	1	22	28	28	31
Geothermal	50	4	12	20	30	38
Municipal Solid Waste	30	20	20	21	23	23
Wood and Other Biomass	80	2	9	30	35	45
Solar Thermal	100	1	4	4	4	5
Solar Photovoltaic	5	8	24	37	55	72
Wind	50	282	363	443	514	573
Total		412	581	785	1,060	1,385

Distributed Generation 160 (4)

Note(s): 1) Cumulative additions after Dec. 31, 2005. 2) Nuclear capacity includes 3 GW of uprates from 2004 to 2030. New nuclear plants are expected to come online 2013-2019. 3) Based on current stock average capacity. 4) Combustion turbine/diesel data used.

Source(s): EIA, Annual Energy Outlook (AEO) 2008, Mar. 2008, Table A9, p. 153-154 and Table A16, p. 162; EIA, Assumption to the AEO 2008, June 2008, Table 39, p. 77; and EIA, Electric Power Annual 2006, Sept. 2007, Table 2.2, p. 19 for pumped storage plant capacity and Table 2.6, p. 21 for hydroelectric plant capacity.